## PRIDE OF FRANCE IN HER WONDERFUL ARTILLERY

the top of the hill is the fire With the woods ends a region there, after the fighting of weeks. the air is filled with a strained. eighted element, things seem to erver and the soldiers move about testibily and speak in whispers.

Here is suddenly a gentle land of ils and valleys. Down over the slope arous the broad valley to the hill on the other side, a mile away, is othing indicative of war save for the few puldiers pludding here and there and the gaping holes of various sizes ent dot the scape as far us the eyes

in the present full of the fighting he ugletness te unbroken, except occolumnity by a dull creek, a report or a muffed explosion back there. over the land away from the woods . an air of undisturbed peace.

Concented from the keen eyes of the deeman alreign among the many clusers of trees that spring up here and all yonder are guns enough, the Cap-

other side. They are long tange guns. we of the biggest in the sector, and he is on his way to them. Within an hour he has orders to fire on a town far over on the other side. "We must harry," he says, "There is little time." His guns have been silent now for ever a week. From the road that runs by almost under their noses the we great barrels, spotted the color of foliage, covered with evergreens the Captain shouts. A second mighty strong we are here," the Captain repassing by day and night on their way

forgotten the battery. The deep resonance of the pieces as shot thunder in the dead of night with and now, except for the few artillerymen connected with the pieces and

Prom among the trees at the outer

The order is repeated and again bursts the terrific volume of sound. As it pulses out it seems hardly possible several shelves of a grocery store. A an opening in the trees and gives

The great guns are fired again and through the woods across the valley ders to soldiers standing around tagain. Instantly there is activity.

In the subdued light of the after-

shells as they exploded were not heard.

There must be at least a score of the most barbarians.

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There must be at least a score of the shells as they exploded were not heard.

"They'll learn by dropping shells into our town," he continues. "They killed forty-seven down there yesterday.

Women and children too! Pigs of the made from the formula of an American explosive is because of the shells as they exploded were not heard.

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"They il learn by dropping shells into our town," he continues. "They killed forty-seven down there yesterday." men hastening here and there in the small opening. They move with regularity and system. Some open large lines as he puts his orders into his plosive which ne named rochamboite.

boint out in the direction of boint on the bill over the valley. We make our way back through the ceived a very polite letter which

Captain says as he hurries away. "Stand on your toes and if necessary He runs over and stands above on massive wheel stands another adjusting an instrument attached to a place the first man. They are the range

Other soldiers have placed the shell back of it they place one of the little white bags. The breech locks. The bag contains the explosive for the propulsive force.

attached to a cartridge stuck into the nothing."

By WILLIAM T. MARTIN.

JALIF a mile on the other side | Supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little and on the other side | Supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little and on the other side | Supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little and the supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little and the supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little and the supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little supreme Confidence Reigns in the Serried Trenches Where the Long .75s Roar Their Machinelike Defiance at the feet to the right and ever so little supreme . Teuton Invaders---Ingenious Devices Used to Screen Guns From Prying Eyes of Enemy Aviators



one half way up the slope on the A French .155 long range gun firing on a French tows in German territory ten miles away. Taken at instant of explosion.

> The pride of France is in her artillery. The famous .75s and the other guns have done as much as the men behind them to hold back the tide of German invasion. In the accompanying article is a vivid picture of the duel that is going on incessantly between the French and the German artillery. There is also an interesting account of the means used to conceal both men and guns from the enemy.

rees, are invisible. The soldiers gun in the other pit rears up as Let them come down and we will blow though from the ground, rolls back them out of existence, the Boches, and rumbles forward again. to and from the trenches have almost

they figured in the recent attacks or trying to collect the senses. It is but A path leads to a mound somewhat for an instant.

A path leads to a mound somewhat larger than the others and higher

tery in the minds of the soldiers as distinct from the other guns of the lock swings back and closes. A soldier, face and arms blackened and greasy, rams a long rod into the barrequently, almost daily sometimes. rel from the mouth and the two on the left busy at the instruments give occasional slight turns to a wheel while branches of trees. This is a cafe, the sheed to enter the clump of trees. speed born of long practice the work the majority of the soldiers have is finished and the men stand by. The same thing begins to go on in the Chance. other pit.

ain enters. He is recognized, they that steel, even the truest, can with- soldier comes out and takes the order. salute, and he passes. He comes upon stand such a strain. It seems that the It is pleasant here in the arbor. At

minute apart while the Captain stands
there between the pits directing the hill the Captain points some distance and with perfect system. Standing di- side, are five shell holes, each one sevsome time before the eyes become rectly behind the guns with a certain eral feet across. They line up so that move about in all directions.

Soldiers spring up from nowhere ap-

they suddenly stand out the air and disappear into the sky.

The pieces are fired a dozen times or so each, then are silent. The Capn the distance. They wear long tain comes over with perspiration loaks daubed in splotches like clus- running over his face and a smile. "It ters of leaves and caps of the same material. They are easy enough to see other side. So the crashes of the

steel boxes and take out little white pocket. Written in the orders are the Mr. Pugsley is a metallurgical enbags filled with something, while number of shells, the exact time and gineer on the staff of the McKinleylers in groups laboriously strain the range of each gun as it was fired. Darragh Mining Company and is sta-

the long heavy things that are He had only to follow them out. tioned at Perth Amboy. When he Meanwhile the men have wiped had completed his formula he took it clean the breeches, rammed the long to Governors Island and told officers one notices that the side barrels and packed away the delicate there what he had. They studied his he enclosure toward the road ends looking little instruments used at the formula, went to Perth Amboy and two great pits. In them are the side for the range finding. Now they saw what it would do and then grew in the ground some feet here lay the thick branches of evergreens enthusiastic and told Mr. Pursley to surface so that only their back over the pieces. In a minute it go to the authorities in Washington.

the woods on the hill over the valley. We make our way back through the ceived a very polite letter which it is difficult to distinguish the long trees over a much travelled path. It thanked him for his interest but said barrels among clusters of greens that the United States Government basel over them. But the massive caterpollar wheels tower above the strange looking moundlike things. The Governors Island men were of the men working there and stinctly seen against the clay of feet above the ground and are made was only in keeping with the way the pits. As they uncover the foliage of deep layers of earth, heavy logs things were done on this side of the from the guns there is less activity and rocks. At the sides are doors and Atlantic in the way of preparedness, and finally silence. We are almost ready to fire." the lead down to them. Here are the quar- the French and British military atters of the men. Some distance on taches. They went to Perth Amboy

are scores of these dwellings. It is a battery village.

The artillerymen lounge about hole five feet deep and four feet in the ground between the pits. Six tussie around in the open good diameter in the earth. It threw men labor in the one to the right. One at the left is equinting on his some sit at little roughly made tables air and gave off a gas that while not knees through a glass hanging from under rustic shelters. They write and deadly was particularly unpleasant. The result was that the French ing out canes, others with pins or bought the formula. The British are needles pick away at leaves around expected to close a contract very soon. nder the high barrel at the word of patterns. Finished, they have inscriptions on them seen through the filmy, is stationed at Perth Amboy, and in invisible but intact remnant of naming the explosive rochambolte he the leaf fibre. Others of the men stand coined a word using the names of both on a carrier at the back of the gun before going back to town on short before mirrors hung on trees, shaving cities. leaves.

chiefly for aerial bombs and grenades, "Shells land here occasionally," ex- as it is an incendiary explosive, or, in plains the Captain, "but they are other words it is a boiling hot shrap-chance shots. The Germans do not nel," said Mr. Pugsley in explaining On the right with a string in his hand to find us, but their pictures show "This new explosive is a compound

for they cannot drive us back. Here The ears ring with a consuming lies the strength of our trenches over noise, dried twigs and parts of foliage on the hill. The pride of France is flutter down as one stands there dully in her artillery."

shot thunder in the dead of night with

a message of death to some town back
Another shell slides into the first pit,
of the German trenches fixed the bat
is swung into the breech, from which

as though just cut. The path leads

the squinting goes on. With incredible Captain explains with pride, one of the

They explode about helf a to the hill where the trenches are. Everybody works at capacity out over the ground. There, side by

French artillerymen up from below ground during a lull in the firing. Entrance to their trench in background. Above-Effect of an incendiary shell from a French battery eral appearance is devastated and fired into a town back of the German trenches.

French .220 mortar, the largest gun in general use in the army. ing simultaneously they can send thousands of shells to a certain spot

etraight line. doubt. It is a freak, but our .75s the pieces at a distance. The batcould not have done better. The guns teries are well concealed.

Some of the guns have special ranges
for towns on the other side and for

immediately. The Captain laughs.

old range. Now they're back there-

the ears. The noise of the .75 guns is sharper, more piercing, than that

fly high in the air the shells make a France. noise like the ripping of heavy silk.

shooting at the German trenches, get- the bravest of the French artillery ting a fresh range possibly. We make They are famed for deeds of daring ground that suddenly breaks into vast heavy bombardment of the Germans. numbers of shell holes, becomes a conwalk from one hole to another for a a section of land between the trenche long distance in any direction.

Here and there are former sites of batteries, dozens of them. The gengrewsome. Trees suddenly appear life-

evenly that they almost make a less and dried leaves hang in great Others of the clusters on gnarled branches. Batteries certain strategic points of the roads in There is a remarkable thing," the are on all hands, but it is hard to dis- enemy territory. Firing at an instant's Captain says with a shrug. "Their tinguish them. In this wilderness of notice they catch the troops or equiprange is less remarkable, but some of torn earth it is almost impossible to ment as they pass over, being guided their guns are good, or their shells, no distinguish the earthen shelters over by their airmen or calculation.

two sharp, piercing reports that tear seem to gather in velocity after leaving known in the enemy territory as by down along the hill. They sound like the guns. Here as in the trenches is the men who fire them. shells bursting near by, so near in fact something oppressive and uncannythat the head involuntarily lowers, opposed to life. It is possible that the ishing work for the day the sky sud-Two more sharp detonations follow Germans will open fire on the stretch denly fills with the hair raising roar at any instant and so no time is lost and deafening explosion of a shell of

noon. The crashes of the guns still throb in rear of a battery. It is dug half way Some distance into the ground, but it is otherwise the exposed battery hangs a great other gun in the French army. almost obsolete celibre and on the bar-Heard through the stillness that follows are the crash of the shells as "Marthe." The Germans know the Germans are firing shrapnel of large they explode over in the trenches. location of this battery almost as well as the men who man it, for it has been Again there is something distinctive as the men who than it, the noise in its sharpness—a here a long time. It is one of the few down there, the soldiers say, for they cearing, ripping character. As they exposed batteries on the front in

Orders have never been given to The Captain explains the guns are move it. Those who man it are among our way toward the battery over in keeping up a reply fire under the

tinuation of them and gives the land a up several feet deep with holes of all slevelike appearance. It is possible to sizes. The land corresponds almost t As we pass the men stand at the doors The land becomes barren and dead, of their dugouts, lounging around or

from cartwheels and massive logs length. It wipes clean everything beide the fraud from the airmen. It is | Part of the battery is inch

but exclusively a disruptive. Its ex-plosion at night is distinguishable for sharply are seen long slender noses of plosion at night is distinguishable for sharpy are seen long stender hoses of a long distance, due to the bright flash guns sticking through. It is the 75 back in answer. Often so short is the caused by the release of the white hot battery.

of filling a shell with small bullets. It seems the crashes were even the next shell again the gun thunders

tection on this side from the shells of nothing. So they stamble about and the Germans. The slender barrels of through experience find the breeches the guns sticking through the slits of the guns in the smoke, shove the shelters look toylike compared to the massive pieces half way down the their dugouts. It is the work of a HE oddest looking fish ever taken They stand at their posts awaiting shells are easily handled. As they fre-

dent of the Midvale Steel Company the hill beyond the valley. It is among There is a chance some may be in It was an elephant eared sunfish, estimated to have been spawned anywhere from 200 to 400 years ago and time the fighting has been heavy at interval, and now a period of a minute

exploding shell reaches the men at the battery the observer in the French trench knows the work of it. He crouches there, peering attentively through a little opening near the parapet. As the shells break only a short distance away with terrific, tearing crashes he shuts his eyes. The muscles of his face and body contract until the first scattering is over Looking over to the enemy's trenest he sees where they fell and telephones back to the battery. It is invisible from this point.

The last shell tore directly into the trench. So he telephones back that the range has been reached. The une at the battery begin sighting another gun in the same manner, but it is pointed at a slightly different section. It is the last gun.

It is the idea at this battery to get a fixed range on a certain section of the trench. For several days French airmen have reported large masses of Germans gathered in the trenches on the hill. In case of sudden attack the Fiench are prepared.

Other batteries of the neighborhood have fixed ranges. It is possible at a moment's notice to spout death with a flaring wall of flame and steel between the trenches to hold back the advancing columns, to send shattering charges into the barbed wire of the German trenches to make a way for their own soldiers and to blast apart the trenches and the troops huddled there awaiting orders to attack. Work-

Others of the guns are pointed at

for towns on the other side and for that fired these shells are five miles away."

Frequently the air fills with the parts of them. So it happens that a piercing reports of a few minutes ago.

As he speaks the air is split with As the shells shrick by overhead they terror and death are almost as well

While the men at the battery are fin-"Just our .75s over there," he says, in hastening along. The Captain says large calibre. Some of the soldiers inpointing up over the hill. "They've the Germans are in the habit of homvoluntarily lower their heads and bend moved them down a little. Found their barding this place late in the after-down in the shelters while the pieces and debris fall about. It was close, so A sort of path leads up the hill. they crowd to the narrow slits to see

Some distance down the slope near cloud of yellow smoke a few yards over calibre at the battery on the slope. There is little danger to the men

are safe underground. To protect themselves they prepare to drop down under the apertures at the first hint of the next shell. It comes. It explodes some feet higher in the air this time and nearer the battery. The difference of a fraction of a second in the timing of the shell, and the battery here will

Another shell tears down and bursts ow over the ground. They shrick down every half minute now with the working, unmindful of their danger, from the air the charges can be seen another exposed battery. Closer ob- ness of lightning, tearing into the servation shows it to be a battery of ground and tossing it about in a great damper of They are constructed faniske stretch several hundred feet in

NOW BEING USED BY THE FRENCH
sive is berench, and

NOW BEING USED BY THE FRENCH
which it comes in contact. The heat

which it comes in contact. The heat

which it comes in contact. The heat

located them to believe there is a battery here. The Germans fire frequently at this battery. It gives the great battery some distance away a measure of protection.

Not far ahead, almost without knowing it we come suddenly use a flash of them contacts as battery here. The Germans fire frequently at this battery. It gives the diers watching wonder whether the soldiers watching watch

Now following each report of the matte; and in daylight by a cloud of black smoke given off."

One advantage of this explosive is that it does away with the necessity noise is still sharp and piercing, but the processing of the still sharp and piercing, but the processing of the still sharp and piercing, but the processing of the still sharp and piercing, but the processing of the still sharp and piercing, but the processing of the still sharp and piercing, but the processing of the still sharp and piercing.

in Palm Beach, and probably orders.

The only one of its kind ever "You will see what our guns can laughing nervously sometimes in the

Explosion of a ten ounce bomb loaded with Rochamboite.

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It was shaped and formed like the little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded very violent explosion.

"About 50 per cent, of the explosive nearly the speed of a built, burning meanly the speed of a built, burning fish is native to African waters.

Natural History wired for a plaster cast of the fish and its brain for research work.

It was shaped and formed like the little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant and that they were folded to the side of the gun at the middle little sunfish that swims in a glass bowl, except that it had ears like an elephant early adjusting the loss forth some cast of the side of the s

which it comes in contact. The heat generated is so intense that fragments of grenades picked up some moments after an explosion were found to be earth, wood and stone. There are four down there are replying to the Gernearly red hot.

caused by the release of the white hot matter; and in daylight by a cloud of as we go around in back there is once, a second after replying, another

The powder fills the shell and when it sharper on the road coming up.

The powder fills the shell and when it sharper on the road coming up.

The rear of the shelters are open. companions still live. like iron ore. Some are as small as a for the stope of the hill affords pro- At the battery the men can see finger tip and others are several inche in diameter. It is easy to manufacture and is not dangerous to handle.

caught in American waters, was harpooned in the Gulf Stream the other day by Ambrose Monnell. Jr., presi- look over the woods on the crest of to tell whether all have so far escaped. where from 200 to 400 years ago and to have weighed then about one sixty thousandth part of its weight when captured, which was close to a ton. Both John D. Crimmins of New York and F. B. Magill of Cincinnati, each an authority on fish, expressed such an opinion. The American Museum of Natural History wired for a plaster cast of the fish and its brain for re-

## "About 50 per cent, of the explosive nearly the speed of a builet, burning emery paper in containing the speed of a builet burning emery paper in containing the speed of a builet burning emery paper in containing the speed of a builet burning emery paper in containing the speed of a builet burning emery paper in containing the speed of a builet burning emery paper in containing the speed of a builet burning emery paper in containing the speed of

shifted to a carridge stude into the stands another of the gun stands and the

## based of the pit slightly to one side. On the right with a string in his hand that string in his hand the string in his hand